

ABSTRACT OF THE DISCLOSURE

A system for use by a physically impaired driver for controlling a vehicle includes an actuator assembly operably coupled to the pedals. The actuator assembly includes a pair of electrical motors operable through a rack and linkage arrangement to depress the brake pedal, and a third electric motor operable through a rack and linkage arrangement to depress the accelerator pedal. The actuator assembly is pivotably mounted above the pedals to pivot when the brake pedal is depressed. A joystick controller is mounted to the vehicle and includes a platform with a grip and arm supports. The joystick controller is operable in a fore-aft direction to control braking and acceleration, and can be tilted side-to-side to operate the vehicle turn signals. The joystick controller includes features for keeping the controller clear of dust and debris and for channeling wiring associated with the turn signals.